

**Lee Hagaman**  
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## EDUCATION

**Yale University** (2019-present)  
Physics PhD student

**University of California, Berkeley** (2015-2019)  
Physics BA

## RESEARCH EXPERIENCE

**Graduate student working with Professor Bonnie Fleming at Yale** (August 2019-present)  
Our research group is involved in several liquid argon neutrino experiments, including MicroBooNE, SBND, and DUNE. I have been involved with performing a Low Energy Excess analysis in MicroBooNE using the Wire-Cell reconstruction tools, developing analysis tools for the upcoming SBND commissioning, testing hardware for SBND, and developing hardware and software for our upcoming small R&D LArTPC at Yale.

**Lawrence Berkeley National Lab, Research Assistant** (May 2017-May 2019)  
Worked with Professor Daniel McKinsey in his research group focusing on direct detection of dark matter, in particular with the LUX and LZ experiments. I primarily worked on IBEX, an experiment which measured optical properties of PTFE immersed in liquid xenon as well TPB (tetraphenyl butadiene) coatings immersed in liquid argon. These measurements are potentially relevant to current and future dark matter experiments and neutrino experiments.

## TEACHING EXPERIENCE

**Undergraduate Group Tutor, UC Berkeley Physics Department** (Fall 2018)  
Held weekly office hours for three introductory physics classes.

**Teaching Fellow, Yale University** (Fall 2019-present)  
Taught 2 semesters of introductory physics lab, 1 summer session of introductory electromagnetism, and 1 ongoing semester of introductory mechanics.

## PUBLICATIONS

Kravitz, S., Smith, R.J., Hagaman, L. *et al.* Measurements of angle-resolved reflectivity of PTFE in liquid xenon with IBEX. *Eur. Phys. J. C* 80, 262 (2020).  
<https://doi.org/10.1140/epjc/s10052-020-7800-6>, [arXiv:1909.08730](https://arxiv.org/abs/1909.08730)